```
Οv
          898 SPARLAYODKGVLHNEVKVSILWRGLPNVVTSAISLPNIRKPDGYDYYAFSKDOYYNIDV 957
              Db
             SPARLAYODKGVLHNEVKVSILWRGLPNVVTSAISLPNIRKPDGYDYYAFSKDQYYNIDV 1380
             PSRTARAITTRSGQTLSKVWYNCP 981
Qy
              1381 PSRTARAITTRSGQTLSKVWYNCP 1404
RESULT 7
    AAB29773 standard; protein; 1404 AA.
AC
     AAB29773:
XX
     15-JUN-2007
                 (revised)
     28-FEB-2001 (first entry)
DE
     Human megakaryocyte stimulating factor (MSF), SEQ ID NO:1.
ХX
     Human MSF; megakaryocyte stimulating factor; tribonectin;
     alternative splicing; joint boundary lubricant; O-linked oligosaccharide;
     osteoarthritis; tribosupplementation; tissue adhesion inhibition;
    friction coefficient reduction; gene therapy; antiarthritic; osteopathic; BOND PC; megakaryocyte stimulating factor; MSF;
     megakaryocyte stimulating factor MSF [Homo sapiens]; GO5203; GO5615;
ХX
os
     Homo sapiens.
хx
     WO200064930-A2.
     02-NOV-2000
    24-APR-2000; 2000WO-US010953
     23-APR-1999;
                   99US-00298970
PA
     (RHOD-) RHODE ISLAND HOSPITAL LIFESPAN PARTNER.
хx
     Jay GD;
    WPI; 2001-024673/03.
DR
    N-PSDB; AAC81498.
PC:NCBI; gi1572721
DR
     PC:SWISSPROT; Q92954.
     Novel tribonectin polypeptide useful as lubricant for treating
     osteoarthritis, comprises O-linked lubricating moiety.
хx
     Claim 3; Page 7; 47pp; English.
CC
    The invention relates to a human tribonectin which is a product of
    alternative splicing of the human MSF (megakaryocyte stimulating factor)
    gene. The tribonectin has at least one O-linked oligosaccharide
     lubricating moiety and has a polypeptide sequence comprising 1-76 repeats
     of a motif having at least 50% identity to the sequence KEPAPTT
     (AAB29774). The invention also relates to a nucleic acid encoding a human
    MSF-derived tribonectin; a biocompatible composition comprising a human
     tribonectin for inhibiting tissue adhesion formation; and a method of
     diagnosing osteoarthritis or a predisposition to osteoarthritis by
     measuring the amount of MSF or its fragment in a biological sample of a
    mammal, wherein an increased amount of MSF compared to a control
     indicates the presence of or predisposition to developing osteoarthritis.
     The tribonectin and DNA encoding it are useful in the treatment of
     osteoarthritis, where they may be used for lubricating mammalian joints,
    such as articulating joints of humans, dogs or horses. The tribonectin, when formulated as a membrane, foam, gel or fibre, is useful for
     inhibiting adhesion between two surfaces such as the injured tissues of a
     mammal, where the injury is caused by a surgical insertion or trauma, or
     an artificial device e.g., an orthopaedic implant. In particular, one of
     the surfaces is pericardial tissue. DNA encoding a tribonectin may be
    used in gene therapy. The present sequence represents human MSF
     Revised record issued on 15-JUN-2007 : Enhanced with precomputed
     information from BOND.
    Sequence 1404 AA:
                         95.8%; Score 4991.5; DB 4; Length 1404;
  Best Local Similarity 69.9%; Pred. No. 3.7e-252;
          981; Conservative
                               0; Mismatches
                                                 0; Indels 423; Gaps
           1 MAWKTLPIYLLLLSVFVIQQVSSQDLSSCAGRCGEGYSRDATCNCDYNCQHYMECCPDF 60
             1 MAWKTLPIYLLLLSVFVIQOVSSQDLSSCAGRCGEGYSRDATCNCDYNCQHYMECCPDP 60
          61 KRVCTAELSCKGRCFESFERGRECDCDAQCKKYDKCCPDYESFCAEVHNPTSPPSSKKAP 120
Qу
          121 PPSGASOTIKSTTKRSPKPPNKKKTKKVIESEEITEEHSVSENOESSSSSSSSSSSSTIW 180
Ov
             181 KIKSSKNSAANRELOKKLKVKDNKKNRTKKKPTPKPPVVDEAGSGLDNGDFKVTTPDTST 240
```

please scan search notes

```
181 KIKSSKNSAANRELOKKLKVKDNKKNRTKKKPTPKPPVVDEAGSGLDNGDFKVTTPDTST 240
           TOHNKVSTSPKITTAKPINPRPSLPPNSDTSKETSLTVNKETTVETKETTTTNKOTSTDG 300
           Db
           KEKTTSAKETQSIEKTSAKDLAPTSKVLAKPTPKAETTTKGPALTTPKEPTPTTPKEPAS 360
           Db
          TTPKEPTPTTIKGAPTTPKEPAPTTTKSAPTTPKEPAPTTTKEPAPTTPKEPAPTTT--- 417
        421 APTTTKSAPTTPKEPAPTTPKKPAPTTPKEPAPTTPKEPTPTTPKEPAPTTKEPAPTTPK 480
           EPAPTAPKKPAPTTPKEPAPTTPKEPAPTTTKEPSPTTPKEPAPTTTKSAPTTTKEPAPT 540
        541 TTKSAPTTPKEPSPTTTKEPAPTTPKEPAPTTPKKPAPTTPKEPAPTTPKEPAPTTTKKP 600
        601 APTAPKEPAPTTPKETAPTTPKKLTPTTPEKLAPTTPEKPAPTTPEELAPTTPEEPTPTT 660
        661 PEEPAPTTPKAAAPNTPKEPAPTTPKEPAPTTPKEPAPTTPKETAPTTPKGTAPTTLKEP 720
        721 APTTPKKPAPKELAPTTTKEPTSTTSDKPAPTTPKGTAPTTPKEPAPTTPKEPAPTTPKG 780
        781 TAPTTLKEPAPTTPKKPAPKELAPTTTKGPTSTTSDKPAPTTPKETAPTTPKEPAPTTPK 840
        418 KPAPTTPETPPPTTSEVSTPTTTKEPTTIHKSPDESTPELSAEPTPKALENSPKEPGVPT 477
        841, KPAPTTPETPPPTTSEVSTPTTTKEPTTIHKSPDESTPELSAEPTPKALENSPKEPGVPT 900
        478 TKTPAATKPEMTTTAKDKTTERDLRTTPETTTAAPKMTKETATTTEKTTESKITATTTQV 537
           TKTPAATKPEMTTTAKDKTTERDLRTTPETTTAAPKMTKETATTTEKTTESKITATTTOV 960
           TSTTTQDTTPFKITTLKTTTLAPKVTTTKKTITTTEIMNKPEETAKPKDRATNSKATTPK 597
           TSTTTQDTTPFKITTLKTTTLAPKVTTTKKTITTTEIMNKPEETAKPKDRATNSKATTPK 1020
           PQKPTKAPKKPTSTKKPKTMPRVRKPKTTPTPRKMTSTMPELNPTSRIAEAMLQTTTRPN 657
           POKPTKAPKKPTSTKKPKTMPRVRKPKTTPTPRKMTSTMPELNPTSRIAEAMLOTTTRPN 1080
           QTPNSKLVEVNPKSEDAGGAEGETPHMLLRPHVFMPEVTPDMDYLPRVPNQGIIINPMLS 717
           1081 QTPNSKLVEVNPKSEDAGGAEGETPHMLLRPHVFMPEVTPDMDYLPRVPNQGIIINPMLS 1140
           DETNICNGKPVDGLTTLRNGTLVAFRGHYFWMLSPFSPPSPARRITEVWGIPSPIDTVFT 777
           DETNICNGKPVDGLTTLRNGTLVAFRGHYFWMLSPFSPPSPARRITEVWGIPSPIDTVFT 1200
           RCNCEGKTFFFKDSQYWRFTNDIKDAGYPKPIFKGFGGLTGQIVAALSTAKYKNWPESVY 837
           SPARLAYQDKGVLHNEVKVSILWRGLPNVVTSAISLPNIRKPDGYDYYAFSKDQYYNIDV 957
Db
           PSRTARAITTRSGQTLSKVWYNCP 981
           Db
       1381 PSRTARAITTRSGOTLSKVWYNCP 1404
RESULT 8
AAB60568
ID
   AAB60568 standard; protein; 1404 AA.
   AAB60568;
   15-JUN-2007
              (revised)
DT
   27-APR-2001
             (first entry)
   Human megakaryocyte stimulating factor (MSF, CACP).
   Human; CACP protein; camptodactyly-arthropathy-coxa vara-pericarditis;
```

MSF; megakaryocyte stimulating factor; synovial lubricant;